

Which solar power technologies can be used for sustainable electric power generation?

In this article, different solar power technologies have been reviewed which can be utilized for the global sustainable electric power generation. Major emphasis has been on solar photovoltaic (PV) and concentrated solar power (CSP) technologies. Their types, mechanism, efficiency and cost factors have been discussed.

Can solar power be used for sustainable electricity generation?

Solar power systems are relatively affordable and they are suitable for both urban and rural areas. With this background, solar power technologies which can be utilized for the development of a sustainable electricity generation have been thoroughly reviewed in this research work.

Can a solar PM system be used for self-powered Internet-of-things nodes?

Mondal et al. developed an efficient solar PM system for micro PV self-powered Internet-of-Things nodes, as shown in Fig. 18. The system utilized a complete on-chip switched-capacitor power inverter instead of a conventional linear regulator, so that the generated electricity is processed only once before reaching the load circuit.

How to generate more electricity to meet the demand of applications?

To generate more electricity to meet the power demand of applications, it is better to combine solar energy with wind energy, mechanical energy, and other energy sources[,,,]. 3.2.1. Hybrid wind-PV energy systems for PV self-powered applications

Can solar energy harvesting be used for PV self-powered applications?

Therefore, many studies focus on solar energy harvesting for PV self-powered applications. This review discusses PV self-powered technologies from various aspects (Fig. 1). Fig. 1. Architecture of PV self-powered technologies. 2.1. Analysis of PV power generation

Can solar and wind energy harvesting be used in a hybrid energy management system?

The experiment proved the feasibility of the proposed system in a hybrid renewable energy management system. Cammarano et al. developed a model for predicting solar and wind energy harvesting in order to increase the constancy and continuity of harvested energy.



# Independent solar power generation applications

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